

## **MLFB-Ordering data**

6SL3210-1KE12-3UP2



Figure similar

Client order no. : Order no. : Offer no. :

Remarks:

Item no. : Consignment no. : Project :

Rated o	lata
nput	
Number of phases	3 AC
Line voltage	380 480 V +10 % -20 %
Line frequency	47 63 Hz
Rated current (LO)	2.90 A
Rated current (HO)	2.50 A
Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	0.75 kW
Rated power NEC 480V (LO)	1.00 hp
Rated power IEC 400V (HO)	0.55 kW
Rated power NEC 480V (HO)	0.75 hp
Rated current (LO)	2.20 A
Rated current (HO)	1.70 A
Rated current (IN)	2.30 A
Max. output current	3.40 A
Pulse frequency	4 kHz
Output frequency for vector control	0 240 Hz
Output frequency for V/f control	0 550 Hz
Output frequency for V/f control	0 550 Hz

Overload capability
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## Low Overload (LO)

 $150\ \%$  base load current IL for 3 s, followed by  $110\ \%$  base load current IL for 57 s in a  $300\ s$  cycle time

### High Overload (HO)

 $200\,\%$  base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

General tech. specifications				
Power factor λ	0.70 0.85			
Offset factor cos φ	0.95			
Efficiency η	0.97			
Sound pressure level (1m)	49 dB			
Power loss	0.04 kW			
Filter class (integrated)	Unfiltered			

Ambient conditions				
Cooling	Air cooling using an integrated fan			
Cooling air requirement	0.005 m³/s (0.177 ft³/s)			
Installation altitude	1000 m (3280.84 ft)			
Ambient temperature				
Operation	-10 40 °C (14 104 °F)			
Transport	-40 70 °C (-40 158 °F)			
Storage	-40 70 °C (-40 158 °F)			
Relative humidity				

Yes
Yes
Yes
Yes
No
No
No



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## 6SL3210-1KE12-3UP2



			Figure sin	
Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP	
Size	FSAA	Connections		
Net weight	1.40 kg (3.09 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16	
Height	173 mm (6.81 in)	Line side		
Depth	155 mm (6.10 in)	Version	Plug-in screw terminals	
Inputs / out	tputs	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
tandard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Switching level: 1→0	5 V	DC link (for braking resistor)		
Max. inrush current	15 mA	Version	Plug-in screw terminals	
ail-safe digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Number	1	Line length, max.	15 m (49.21 ft)	
Digital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	g	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)	
Number as transistor	1	Unshielded	100 m (328.08 ft)	
Output (resistive load)	DC 30 V, 0.5 A	Standards		
Analog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number	1 (Differential input)			
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Volta Directive 2006/95/EC	
witching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
Analog outputs				

# PTC/ KTY interface

Number

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^\circ\text{C}$ 

1 (Non-isolated output)



### MLFB-Ordering data

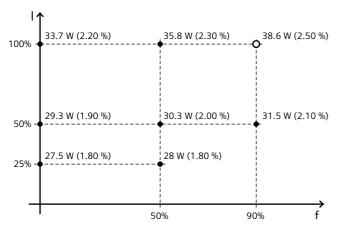
6SL3210-1KE12-3UP2

# Saverage

Figure similar

# Converter losses to IEC61800-9-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	26.60 %



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency(f). The values are valid for the basic version of the converter without options/components.

\*converted values